

Title (en)

ORGANOPHOSPHORUS ADDITIVES FOR IMPROVED FUEL LUBRICITY

Title (de)

ORGANOPHOSPHORADDITVE FUER VERBESSERTE SCHMIERENDE EIGENSCHAFTEN VON TREIBSTOFF

Title (fr)

ADDITIFS ORGANOPHOSPHORES DESTINES A AMELIORER L'ONCTUOSITE DES CARBURANTS

Publication

EP 0804524 A4 19980225 (EN)

Application

EP 95940042 A 19951117

Priority

- US 9515032 W 19951117
- US 34476394 A 19941123

Abstract (en)

[origin: WO9616143A1] The lubricity (anti-wear properties) of hydrocarbon fuels, oxygenate fuels or mixtures thereof, particularly diesel or aviation fuels having reduced sulphur and/or aromatic content for compliance with regulator requirements, is improved by the addition of a phosphorus ester or esters (phosphates and/or phosphites), or a concentrate containing the ester or esters, having a total acid number of at least 1.0 mg KOH/g. The additives also improve corrosion inhibition.

IPC 1-7

C10L 1/26; **C10L 1/24**

IPC 8 full level

C10L 1/14 (2006.01); **C10L 1/26** (2006.01); **C10L 10/04** (2006.01); **C10L 1/16** (2006.01); **C10L 1/18** (2006.01)

CPC (source: EP US)

C10L 1/14 (2013.01 - EP US); **C10L 1/2633** (2013.01 - EP US); **C10L 1/2641** (2013.01 - EP US); **C10L 10/04** (2013.01 - EP US); **C10L 10/08** (2013.01 - EP US); **C10L 1/1608** (2013.01 - EP US); **C10L 1/1824** (2013.01 - EP US); **C10L 1/1852** (2013.01 - EP US); **C10L 1/265** (2013.01 - EP US)

Citation (search report)

- [DX] US 4177768 A 19791211 - DAVIS BRYAN T [US]
- [X] GB 2147005 A 19850501 - SANDOZ LTD
- [X] FR 2091395 A5 19720114 - SHELL INT RESEARCH
- [X] US 4997968 A 19910305 - BURJES LOUIS [US], et al
- [X] US 3115465 A 19631224 - ORLOFF HAROLD D, et al
- [X] FR 859846 A 19401230 - STANDARD OIL DEV CO
- [X] GB 1146173 A 19690319 - GEIGY UK LTD
- See references of WO 9616143A1

Designated contracting state (EPC)

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